

SUBJECT INDEX

- Addition Logarithms 47
- Airy Integral 88-89, 162
- Algebraic Equations 40, 123
- Antilogarithms 75-76, 164
- Approximations 46, 58-60, 143-144, 240-241
- Arc Lengths 224-225
- Arc Tangent 215
- Astronomy 93-94, 226

- Bernoulli Numbers 150
- Bessel Functions 46, 91, 95, 221, 223, 226
- Bessel Functions, Integrals of 23, 30, 92-93
- Bessel Functions, Roots of 223
- Beta Function, Incomplete 152, 154
- Bibliography 182-183, 203-212, 226, 242-244
- Biharmonic Functions 27
- Binary Quadratic Forms 76-77, 96-97
- Binomial Coefficients 86, 152, 216, 228
- Binomial Distribution 29, 86, 152, 155, 218-219
- Biography 242-244
- Block Designs 17-18
- Boolean Algebra 41

- Calculating Machines *see* Computing Machines
- Chapman's Integrals 226
- Charts 44
- Chebyshev Polynomials 101, 143-147, 196-197
- Chi Square Distribution 19, 153, 158, 217-218
- Coding 41, 103-110, 138-139, 170-172, 178, 230-231
- Computing Machines, Analogue 43-45, 115-119, 179-182, 233-234
- Computing Machines, Digital 37-44, 98-115, 167-168, 173-178, 231-237
- Computing Routines 30-35
- Congruences 77, 166, 228
- Constants 29, 49-51
- Continued Fractions 60-64, 132
- Conversion Equipment 37, 177
- Conversion Tables 101, 147-148, 149
- Cosine 101
- Cosine, Hyperbolic 96, 227
- Cosine Integral 89
- Cosines, Cyclotomic 166
- Coulomb Wave Functions 97, 224
- Crystal Structure 39, 101-103, 175
- Cullen Numbers 188

- Cyclotomic Periods 166
- Cyclotomic Units 186-188

- Data Processing 39, 43-44, 114, 176-178
- Decimals, Recurring 148
- Deflexion Function 23
- Differences, Divided 1-11, 13, 67-74
- Differential Analyzers 45, 117-118, 176, 177, 236
- Differential Equations 40-42, 125-131, 231-234, 236, 242-243
- Diophantine Equations 149-150
- Distribution Functions 18-21, 80-83, 152-153, 156-159, 162, 217-219, 221

- Eigenvalues 41, 126-131, 161, 237-239
- Elasticity 161
- Elliptic Functions 16, 77-78, 162
- Elliptic Integrals 224
- Equation Solvers 123, 234
- Equations (special) *see* Algebraic, Differential, Diophantine, Integral, Linear, Transcendental, Wave
- Errata 21, 25, 28-29, 47-49, 75, 95-96, 148, 164-165, 227-228
- Error Estimation 67-74, 193-203, 232
- Error Functions *see* Probability Integral
- Exponential Function 86, 96, 153, 216
- Exponential Integral 89, 205
- Exponents of 10 148

- Factor Tables 29, 228
- Factorials 86, 153
- Factorizations 96, 148, 166
- Fermat's Last Theorem 150
- Fourier Analyser 236
- Fourier Synthesis 34-35, 232
- Functions (special) *see* Bessel, Beta, Coulomb, Distribution, Elliptic, Error, Exponential, Gamma, Green's, Hankel, Hyperbolic, Hypergeometric, Jacobi's Theta, Kelvin, Legendre, Möbius, Probability, Ramanujan, Struve, Symmetric, Trigonometric

- Gamma Function 153
- Gamma Function, Complex Argument 25, 202-203
- Gamma Function, Incomplete 157, 163
- Gear Ratios 147
- Geodesy 217, 226
- Gram-Charlier Series 87

SUBJECT INDEX

- Addition Logarithms 47
- Airy Integral 88-89, 162
- Algebraic Equations 40, 123
- Antilogarithms 75-76, 164
- Approximations 46, 58-60, 143-144, 240-241
- Arc Lengths 224-225
- Arc Tangent 215
- Astronomy 93-94, 226

- Bernoulli Numbers 150
- Bessel Functions 46, 91, 95, 221, 223, 226
- Bessel Functions, Integrals of 23, 30, 92-93
- Bessel Functions, Roots of 223
- Beta Function, Incomplete 152, 154
- Bibliography 182-183, 203-212, 226, 242-244
- Biharmonic Functions 27
- Binary Quadratic Forms 76-77, 96-97
- Binomial Coefficients 86, 152, 216, 228
- Binomial Distribution 29, 86, 152, 155, 218-219
- Biography 242-244
- Block Designs 17-18
- Boolean Algebra 41

- Calculating Machines *see* Computing Machines
- Chapman's Integrals 226
- Charts 44
- Chebyshev Polynomials 101, 143-147, 196-197
- Chi Square Distribution 19, 153, 158, 217-218
- Coding 41, 103-110, 138-139, 170-172, 178, 230-231
- Computing Machines, Analogue 43-45, 115-119, 179-182, 233-234
- Computing Machines, Digital 37-44, 98-115, 167-168, 173-178, 231-237
- Computing Routines 30-35
- Congruences 77, 166, 228
- Constants 29, 49-51
- Continued Fractions 60-64, 132
- Conversion Equipment 37, 177
- Conversion Tables 101, 147-148, 149
- Cosine 101
- Cosine, Hyperbolic 96, 227
- Cosine Integral 89
- Cosines, Cyclotomic 166
- Coulomb Wave Functions 97, 224
- Crystal Structure 39, 101-103, 175
- Cullen Numbers 188

- Cyclotomic Periods 166
- Cyclotomic Units 186-188

- Data Processing 39, 43-44, 114, 176-178
- Decimals, Recurring 148
- Deflexion Function 23
- Differences, Divided 1-11, 13, 67-74
- Differential Analyzers 45, 117-118, 176, 177, 236
- Differential Equations 40-42, 125-131, 231-234, 236, 242-243
- Diophantine Equations 149-150
- Distribution Functions 18-21, 80-83, 152-153, 156-159, 162, 217-219, 221

- Eigenvalues 41, 126-131, 161, 237-239
- Elasticity 161
- Elliptic Functions 16, 77-78, 162
- Elliptic Integrals 224
- Equation Solvers 123, 234
- Equations (special) *see* Algebraic, Differential, Diophantine, Integral, Linear, Transcendental, Wave
- Errata 21, 25, 28-29, 47-49, 75, 95-96, 148, 164-165, 227-228
- Error Estimation 67-74, 193-203, 232
- Error Functions *see* Probability Integral
- Exponential Function 86, 96, 153, 216
- Exponential Integral 89, 205
- Exponents of 10 148

- Factor Tables 29, 228
- Factorials 86, 153
- Factorizations 96, 148, 166
- Fermat's Last Theorem 150
- Fourier Analyser 236
- Fourier Synthesis 34-35, 232
- Functions (special) *see* Bessel, Beta, Coulomb, Distribution, Elliptic, Error, Exponential, Gamma, Green's, Hankel, Hyperbolic, Hypergeometric, Jacobi's Theta, Kelvin, Legendre, Möbius, Probability, Ramanujan, Struve, Symmetric, Trigonometric

- Gamma Function 153
- Gamma Function, Complex Argument 25, 202-203
- Gamma Function, Incomplete 157, 163
- Gear Ratios 147
- Geodesy 217, 226
- Gram-Charlier Series 87

- Graphical Methods 44
- Graphs 161, 163-164
- Green's Function 23
- Group Characters 212-216, 229
- Groups 231
- Hankel Function 51, 123-124
- Harmonic Analysis 34-35, 232, 235, 236
- Heat Conduction 179
- Hermite Polynomials 90
- Hydraulics 24
- Hyperbolic Functions 149, 161
- Hypergeometric Functions 36-37, 162
- Hypergeometric Functions, Confluent 25, 37, 159, 221
- Input-Output Devices 119
- Integrals (special) *see* Chapman's, Cosine, Elliptic, Dawson, Exponential, Probability, Sievert, Sine
- Integrals, Definite 46, 91, 203-212, 224, 226
- Integrals, Evaluation of 200-203, 225-226
- Integrals, Indefinite 24-25, 91
- Integrators 44, 235-237
- Interpolation 13-16, 17, 119-122
- Jacobi Theta Function 78
- Kelvin Functions 223
- Lagrangian Coefficients 183
- Laguerre Polynomials 30
- Laplace Equation 125-131, 235
- Laplace Transforms 78-79
- Legendre Functions 204-205
- Legendre Functions, Associated 28, 90-91, 222
- Legendre Polynomials 23, 24, 162
- Linear Equations 41, 101, 169, 189-193, 234, 243-244
- Linkages 45
- Logarithms 60-64, 76, 86, 153
- Logarithms of Complex Numbers 149, 216
- Logic Machines 53-57
- Logistics 79
- Mach Numbers 47
- Matrices 110, 139-143
- Matrix Inversion 64-67
- Matrix Multiplication 40, 181
- Mechanical Quadrature *see* Numerical Integration
- Minimum Problem 11-13
- Möbius Function 217
- Modular Invariant 77-78
- Molecular Structure 203-212, 222-223
- Monte Carlo Method 39-40
- Network Analyzers 45, 234
- Nomograms 45, 119, 235
- Number Theory 16, 76-78, 149-150, 217, 228-229, 241-242
- Numerical Integration 11-13, 16-17, 196-203
- Numerical Solution of Differential Equations *see* Differential Equations
- Perfect Numbers 16, 75
- Pi, Reciprocal of 29, 49-51
- Poisson Distribution 86-87, 95, 152, 155
- Polynomials (special) *see* Chebyshev, Hermite, Laguerre, Legendre
- Polynomials, Roots of 184-186
- Power Series 132
- Powers 148
- Prime Pairs 47-49
- Probability Functions *see* Distribution Functions
- Probability Integral 86, 151, 230
- Product, Infinite 225
- Programming *see* Coding
- Pseudo Squares 241-242
- Punch Card Tables 90
- Pythagorean Triangles 228-229
- Quadrature *see* Numerical Integration
- Quantum Mechanics 203-212
- Ramanujan's Function 78
- Random Numbers 160, 228
- Random Walks 42
- Rayleigh Quotient 130
- Relaxation Methods 125-131
- Residue-Indices of 2 95, 96
- Rocket Functions 24-25
- Root-Finders 123
- Roots of Unity 166
- Sampling 18-21, 82-83, 154-156, 159-160
- Scattering 25-27
- Series 163-164
- Sieve Problems 241-242
- Sievert Integral 97
- Sine 101, 215
- Sine, Hyperbolic 96, 227
- Sine Integral 89
- Sines, Cyclotomic 166
- Sound Waves 92
- Square Roots 153

- Squares 153
 Statistics 17-23, 79-88, 151-160, 217-221, 229
 Struve Function 90
 Student's t 45, 84, 153, 159, 160
 Sub-Routines 30-35, 108-109
 Symmetric Functions 150-151
 Tangent, Inverse *see* Arc Tangent
 Trigonometric Functions (*see also* sin, cos, etc.) 28, 153, 226
 Trigonometric Functions, Inverse 132-139
 Twin Primes 47-49
 Wave Equations 222-223

MACHINE INDEX

- APENC 102
 APERC 102
 APEXC 98-104
 BARK 105
 Bendix 173
 BTL Computers 105, 174
 Burroughs Computer 53
 CSIRO Computers 106
 DIGITAC 176
 EDSAC 25, 30, 39, 225, 226
 ELECOM Computers 177
 Electro-Data 173
 ENIAC 49-50
 ERA Computers 40-41
 FERUT 30-35, 105
 FLAC 106
 Harwell Computer 174
 Hollerith Electronic Computers 103, 232
 Hurricane 114
 IAS Computer 170
 IBM Computers 1, 26, 37-44, 64, 106, 132, 136, 139, 173, 178, 230
 ILLIAC 30, 115, 172
 Imperial College Computing Engine 174
 Integromat 112-113
 LEO 175
 MAGIC 102, 178
 Manchester Univ. Computers 30, 105, 174, 232
 MANIAC 212
 Mark III 172
 MIDAC 40-41, 43, 187-188
 MIDSAC 230-231
 Nim machine 175
 OARAC 114
 ORACLE 106-107, 111, 232
 ORDVAC 115, 172
 REAC 44, 114
 Remington Rand Computers 39, 40
 Royal Aircraft Calculator 174
 SADIC 37
 SEAC 30, 36-37, 90, 97-98, 108-109, 197
 SWAC 109-110, 175, 178, 231, 233, 241
 T. R. E. Computer 174
 Turing Machine 110
 UNIVAC 44, 50, 114, 171, 172
 Whirlwind I (WWI) 40, 110, 172
 Zuse Computer 107

NAME INDEX

- Abramowitz, M. 25, 179
 Adams, C. W. 40, 42, 178
 Admiralty Research Lab. 221
 Aiken, H. H. 107
 Aitken, A. C. 13-16, 239, 240
 Akademiâ Nauk S.S.S.R. 149
 Alexander, S. N. 114
 Allen, E. E. 241
 Alt, F. L. 42, 179
 Altmann, S. L. 211
 Alway, G. G. 110, 111
 Amemiya, A. 206, 207, 209
 Amitsur, S. 234
 Anderson, R. K. 173
 Anderson, R. L. 18, 82, 219
 Anderson, V. C. 235

- Anderson, W. G. 115
 Aoki, Y. 209
 Aoyama, H. 79
 Apostol, T. M. 164
 Arai, T. 208
 Araki, G. 206, 208, 209
 Archibald, R. C. 149, 183
 Aroian, L. A. 21, 85, 154
 Artin, E. 188
 Astin, A. V. 115

 Babbage, C. 174
 Backus, J. W. 41, 170, 178, 230
 Bagley, P. R. 111
 Baker, D. A. 210, 211
 Barber, N. F. 235
 Barker, R. S. 210, 211
 Barnard, G. A. 219
 Barnes, E. S. 76
 Barnett, M. P. 204, 207, 208, 210, 211
 Bartlett, J. H. 204, 211
 Bates, D. R. 222
 Battin, R. H. 179
 Bauer, F. L. 105
 Bauer, W. F. 42
 Beeger, N. G. W. H. 188
 Belck, H. B. 43
 Bell, W. D. 42
 Bennett, A. A. 176
 Bennett, C. A. 81, 220
 Bennett, J. M. 41, 110
 Bennett, R. R. 179
 Berg, K. J. 40
 Bergman, S. 42, 195, 203
 Berkson, J. 79
 Bernstein, R. 119
 Berwick, W. E. H. 77, 78
 Best, G. C. 13
 Bethel, H. 41
 Betz, B. K. 172
 Bickerstaff, T. A. 18, 156
 Bickley, W. G. 97, 98
 Biermann, L. 112, 113
 Bird, R. 105
 Birnbaum, Z. W. 19
 Bivins, R. L. 215, 229
 Blakesley, T. H. 227
 Blanch, G. 11, 25, 74, 223
 Boas, M. L. 235
 Bodewig, E. 239, 240
 Bolles, E. E. 176
 Booth, A. D. 104, 105
 Booth, K. H. V. 105, 186
 Boothroyd, A. R. 116

 Bouricius, W. G. 114
 Bouwkamp, C. J. 223
 Bowden, B. V. 173, 175
 Bowie, O. L. 43
 Bowker, A. H. 85
 Bradley, R. A. 17
 Bramble, C. C. 114
 Braunstein, J. 208
 Brennan, R. O. 207, 209, 211
 Briggs, T. H. 114
 Britten, K. H. V. 104
 Brock, P. 41
 Bromberg, E. 44
 Brooks, R. W. 42
 Broomall, J. 116
 Brough, H. W. 118
 Brouwer, D. 121, 122
 Brown, G. W. 59
 Brown, J. H. 40, 178
 Brown, S. L. 235
 Brown, W. 230
 Brownell, G. L. 235
 Brooker, R. A. 170
 Bruce, R. T. 40
 Bubb, F. W. 44
 Bückner, H. 112, 113
 Burbeck, D. W. 176
 Burger, A. P. 51
 Burington, R. S. 151
 Burke, H. E. Jr. 177
 Burks, A. W. 57
 Burns, T. J. 177
 Burrows, W. H. 44
 Bush, V. 112
 Butterworth, R. A. 178
 Byron, D. S. 40

 Cadwell, J. H. 153
 Cahill, W. F. 37, 96
 Caldwell, J. H. 217
 Caldwell, S. H. 42
 Cambel, A. B. 235
 Caminer, D. T. 175
 Canning, R. G. 177
 Cannon, E. W. 30, 98, 112, 113, 167, 175, 179, 232
 Capuano, R. 90
 Carr, J. W. III 40, 42, 110, 178, 188
 Carroll, R. E. 43
 Carter, W. C. 175
 Cavicchi, R. V. 235
 Cederbaum, I. 235
 Chandler, K. N. 80
 Chandrasekhar, S. 23, 26, 27, 223

- Chapman, J. C. 115
 Charnes, A. 65, 67
 Cheema, M. S. 217
 Christoph, K. 90
 Chu, L. J. 223
 Clairaut, A. C. 123
 Clark, R. E. 154
 Clemence, G. M. 121, 122
 Clenshaw, C. W. 144
 Clinnick, M. L. 147
 Clippinger, R. F. 42, 115
 Cloud, J. D. 177
 Cochran, W. 39
 Cochran, W. G. 83
 Cock, A. R. 111, 173, 233
 Codd, E. F. 110
 Cohen, A. C. Jr. 21, 83, 156
 Cohn, H. 188
 Collatz, L. 13, 244
 Comp. Lab. Univ. Ill. 172
 Comrie, L. J. 164
 Condon, E. U. 175
 Conn, R. B. 114
 Cooley, E. F. 44
 Coolidge, A. S. 204, 211
 Coon, H. J. 155
 Cooper, W. W. 67
 Coulson, C. A. 204, 206-208, 210, 211
 Cox, D. R. 219
 Coyle, M. B. 179
 Cozzone, F. P. 44
 Craig, C. C. 79, 87, 153, 156, 157, 159, 218
 Craig, D. P. 210
 Craig, E. J. 192, 193
 Craig, L. J. 180
 Crandall, S. H. 42
 Crawford, B. L. Jr. 206, 207
 Cremer, H. 112
 Crispin, J. W. 90
 Crosman, L. P. 42
 Crowley, T. H. 30
 Crumb, C. B. Jr. 236
 Cunningham, A. J. C. 49, 166, 188
 Cunningham, E. J. 44
 Cureton, E. E. 19
 Curry, H. B. 230
 Curtiss, J. H. 41, 193

 Dalgarno, A. 211
 Daniels, F. B. 235
 Daniels, H. E. 18
 Dantzig, G. B. 67
 David, F. N. 150, 151
 David, H. A. 18
 Davids, N. 203

 Davis, L. Jr. 25
 Davis, M. E. 114
 Davis, P. 194, 203
 Davis, R. 177
 Davis, R. M. 96
 Deprez, F. 75, 76, 164, 165
 Derman, C. 88
 DeTurk, J. E. 41, 230
 Diehm, I. C. 110
 Diliberto, S. P. 58, 60
 DiMaggio, F. 161
 Dixon, W. J. 80, 86, 154, 218
 Doak, G. O. 210
 Dodson, J. 75, 76, 164
 Domb, C. 88
 Douglas, A. S. 39
 Dover, J. J. 178
 Duncan, W. J. 23
 Dunski, C. V. 223
 Durand, D. 19

 Eachus, J. J. 115
 Eckert, W. J. 42, 121, 122
 Edson, L. J. 41
 Edwards, C. M. 43
 Eisenhart, C. 29, 81, 85, 179, 229
 Ekelöf, S. 161
 Elbert, D. 23, 223
 Elbourn, R. D. 37, 39, 111, 114, 176
 Elgot, C. C. 40, 230
 Ellis, M. 175
 Emersleben, O. 163
 Engstrom, H. T. 114
 Epstein, B. 81, 153, 158
 Erdélyi, A. 23-25, 27, 28, 89-91, 93, 124,
 161-163, 222-226
 Evans, R. T. 236
 Eyring, H. 210, 211

 Fairthorne, R. A. 23
 Fantl, L. 175
 Fasso, C. 24
 Felker, J. F. 116
 Ferguson, D. F. 49
 Ferrell, E. B. 115
 Ferrier, A. 29, 166, 228
 Fillmore, R. L. 233
 Finney, D. J. 157
 Fischbach, J. W. 43
 Fischer, I. 209, 210
 Fisher, R. A. 19
 Flanders, D. 127, 131
 Fletcher, A. 211
 Fluke, C. S. 171
 Forsythe, G. E. 42, 231, 245

- Fox, L. 131
 Frady, W. E. 176
 Frame, J. S. 123
 Frankel, S. P. 125-129, 131
 Freeland, F. T. 123
 Freeman, H. A. 87, 160
 Frese, W. 115
 Fritz, W. B. 40
 Fritze, E. H. 115, 116
 Frobenius, G. 212, 216
 Fröberg, C. E. 97, 224
 Frost, A. A. 208
 Fullenwider, E. D. 42
 Fung, Y. C. 161
 Futterman, A. 90

 Garwick, J. V. 170
 Gaunt, J. A. 242
 Gayen, A. K. 87
 Geisler, H. J. 115
 Gellman, H. 35
 Gerneth, D. C. 57
 Gill, S. 36, 42, 110, 170
 Glaisher, J. W. L. 48
 Gloden, A. 77, 96, 166
 Glowatzki, E. 162
 Goetz, J. A. 115
 Goldfinger, R. 172, 178
 Goldstine, H. H. 41, 115, 170
 Golub, A. 154
 Gomza, A. 161
 Gordon, B. M. 43, 177
 Gordon, M. H. 19
 Gorn, S. 178
 Gotlieb, C. C. 35, 43
 Grab, E. L. 155
 Grabb, E. M. 176
 Gray, H. J. Jr. 231
 Gray, M. C. 24
 Greenough, M. L. 38
 Greenwood, J. A. 19, 158
 Greenwood, R. E. 90
 Grieser, N. 177
 Griffing, V. 207, 208
 Grimsdale, R. L. 110
 Grosch, H. R. J. 43
 Gross, O. 60
 Grubbs, F. E. 80, 155
 Gruenberger, F. 96
 Guillemin, A. 164, 165
 Guillemin, V. 204, 211
 Gumbel, E. J. 19, 84, 85, 158, 218, 221
 Gupta, A. K. 20
 Gupta, H. 77, 78, 217
 Gupta, O. P. 217

 Haas, D. L. 119
 Hald, A. 20, 21
 Hall, A. S. 45
 Hall, M. 109, 242
 Halsbury, Earl of 174
 Hamaker, H. C. 218
 Hamilton, F. E. 41
 Hammer, P. C. 184
 Hammersley, J. M. 156, 224
 Hancock, H. 92
 Handy, B. F. 42
 Haneman, V. S. Jr. 117
 Hardy, G. H. 48
 Hare, R. R. 106
 Harner, H. 230
 Hartley, H. O. 18, 19, 84
 Hartree, D. R. 36
 Harvard Univ. Comp. Lab. 110, 124
 Hasse, H. 188
 Hastay, M. W. 81, 85
 Hastings, C. Jr. 47, 139
 Hayashi, K. 227
 Heiser, D. H. 44
 Heising, W. P. 139
 Hemer, O. 149
 Hendersen, A. 67
 Henrici, P. 106, 108
 Herrick, H. L. 110, 178
 Hersch, C. J. 116
 Herzfeld, K. J. 208
 Hestenes, M. R. 176, 178, 189, 191, 193
 Higgins, T. J. 181
 Hijikata, K. 207-209
 Hildebrand, F. B. 41
 Hill, J. L. 177
 Hirsch, M. 244
 Hirschfelder, J. O. 208
 Hirvonen, R. A. 216
 Hobson, E. W. 211
 Hock, R. 41
 Hodges, J. L. Jr. 79, 87, 160
 Hoeffding, W. 21, 22
 Hoffman, A. 65, 67
 Hoffman, F. W. 165
 Holberton, B. 178
 Hopper, G. M. 42, 110, 178
 Hotelling, H. 142, 143, 239
 House, R. W. 114
 Householder, A. S. 41, 107, 232
 Howard, J. H. 114
 Howe, R. M. 117
 Hughes, E. S. Jr. 177
 Hume, J. N. P. 35
 Hunter, G. T. 42
 Hunter, H. E. 90

Hurd, C. C. 41
 Huskey, H. D. 177
 Hutner, R. A. 223
 Hyrenius, H. 156

IBM Corp. 170
 Irwin, J. B. 94
 Isaac, E. J. 110
 Ishiguro, E. 207-209

Jacobi, C. G. J. 166
 Jacobi, G. T. 43
 Jacobs, H. Jr. 43
 Jaffe, G. 222, 223
 Jaffe, H. H. 210
 Jamelson, K. 105
 James, H. M. 204, 211
 Jaskowski, S. 57
 Jasper, R. B. 90, 98
 Jenkins, R. 118
 Jerrard, R. P. 43
 Joffe, S. A. 28
 Johnson, E. F. 118
 Johnson, N. L. 219
 Johnston, S. 98
 Jones, B. W. 77, 150
 Jones, C. W. 209
 Jones, H. L. 81
 Jones, J. L. 230

Kahrimanian, H. G. 41, 178
 Kamat, R. 82
 Kaplan, E. L. 16
 Kaprekar, D. R. 148
 Katz, L. 88
 Kaufman, H. 226
 Kaufman, J. 41
 Kayan, C. F. 43
 Keller, A. 178
 Kelley, T. L. 228
 Kendall, M. G. 150, 151
 Khintchine, A. 63, 64
 Khrenov, L. S. 28
 Kincaid, W. M. 14, 16
 King, G. S. D. 175
 King, G. W. 41
 Kirkby, S. 23
 Kirsch, R. A. 115, 176, 232
 Kitagawa, T. 82, 95
 Kitahara, T. 82
 Kitz, N. 105
 Klass, P. 39
 Kleinman, R. E. 90
 Knight, L. 232
 Kolsky, H. G. 184

Kondo, K. 216
 Koopmans, T. C. 67, 143
 Kopal, Z. 90
 Kopineck, H. J. 206, 208
 Kopp, R. 114
 Koss, A. M. 41
 Kossack, C. F. 19, 81, 219
 Kotani, M. 206-209
 Kourganoff, V. 163
 Kraitchik, M. 95, 96, 148, 241, 242
 Kubie, E. C. 41
 Kuroiwa, Y. 157

Laderman, J. 68, 71, 74
 LaFara, R. L. 139
 Lanczos, C. 203
 Landsman, G. L. 43
 Laning, J. H. Jr. 178
 Lanning, H. H. Jr. 179
 Latscha, R. 157
 Lauwerier, H. A. 37
 Ledsham, K. 222
 Lefèvre, J. 83
 Lehmer, D. H. 17, 48, 49, 75, 76, 78, 79,
 148-151, 160, 166, 176, 188, 216, 217,
 224, 241, 242
 Lehmer, E. 150
 Leitner, A. 223
 Leutert, W. W. 176
 Levin, J. H. 109
 Levinson, A. 203
 Lewis, E. 230
 Lieblein, J. 20, 83, 158
 Liebmann H. 125, 128
 Liénard, R. A. 188
 Lin, C. C. 42
 Linnett, J. W. 207, 208
 Lipkis, R. 109
 List, B. H. 45
 Little, A. D. 41
 Littlewood, D. E. 212, 216
 Littlewood, J. E. 48
 Livesley, R. K. 111
 Livingston, H. M. 178
 London, A. 210
 Lotkin, M. 216
 Lovelace, Lady 174
 Loveland, E. H. 19
 Loveman, B. D. 114
 Lowan, A. N. 68, 71, 74, 197, 203
 Löwdin, P. O. 210, 211
 Lownes, A. E. 182
 Ludeke, C. A. 236
 Lukasiewicz, J. 53, 57
 Luke, Y. L. 17, 91

- Lundquist, S. O. 211
 Lynch, J. K. 147

 McCallum, K. J. 211
 Maccoll, A. 210
 McCool, W. A. 180
 McCormick, E. M. 43
 McCoy, R. D. 44
 McDonal, F. J. 236
 McDowell, W. W. 176
 McElrath, G. W. 23, 155
 McMaster, R. C. 45
 Macnee, A. B. 45, 235, 236
 McPherson, J. L. 44
 Maginniss, F. J. 114
 Magnus, W. 203
 Mahalanobis, P. C. 228
 Mahler, M. L. 223
 Mallory, P. R. 115
 Mangini, R. A. 44
 Mann, H. B. 22
 Mannos, M. 67
 Many, A. 234
 Marden, E. 39, 90
 Marden, E. C. 96
 Margolis, M. 176
 Marsten, J. 115
 Martin, W. L. 178
 Mashiko, M. 89
 Mason, D. R. 42
 Mass. Inst. Tech. 172
 Masuyama, M. 157
 Mauchly, J. W. 40, 115
 Maxfield, J. E. 234
 May, D. C. Jr. 151
 Mayer, M. G. 211
 Meiboom, S. 234
 Meissner, L. P. 177
 Meixner, J. 223
 Mendelson, M. J. 176, 177
 Meneley, C. A. 118
 Menger, K. 57
 Mergler, H. W. 177
 Merrill, R. L. 45
 Metropolis, N. 215, 229
 Meyer, H. A. 40
 Meyer, M. A. 43, 177
 Michaelson, R. L. 186
 Michell, J. H. 161
 Miksa, F. L. 228, 229
 Miller, J. C. P. 11, 88, 166, 211
 Miller, J. J. 90
 Miller, K. S. 118, 179, 181
 Milne, W. E. 12, 13, 15, 16, 126, 131
 Milne-Thomson, L. M. 11

 Mises, R. von 239, 240
 Mitchell, J. M. 177
 Mizushima, M. 208
 Moore, E. F. 110
 Mordell, L. J. 150
 Morison, J. 40
 Morrill, C. D. 118
 Morris, W. L. 44, 118
 Morrison, C. L. 236
 Morse, P. M. 223
 Moser, N. 178
 Moshman, J. 83, 107
 Mueller, C. R. 211
 Muggia, A. 224
 Muller, D. E. 41, 178
 Mulligan, J. F. 206-211
 Mulliken, R. S. 206-208, 210, 211
 Münch, G. 27
 Munford, C. M. 227
 Murai, T. 209
 Murnaghan, F. J. 212, 216
 Murray, F. J. 41, 45, 114, 116, 118, 181,
 182, 234-237
 Mutch, E. N. 110

 Nachod, C. P. 45
 Nair, K. R. 84
 Nakamura, T. 207, 209
 Natrella, M. G. 229
 Nav. Prov. Ground 172
 Nayler, J. 97, 98
 NBSCL 158, 159, 164
 Neeb, D. 43
 Nelson, R. J. 42
 Neville, E. H. 13-16
 Newman, M. 109, 110
 Nicola, R. N. 43, 177
 Nomachi, Y. 82
 Nyholm, R. S. 210

 Oberhettinger, F. 203
 O'Hara, P. J. 98
 Olkin, I. 22, 154, 155
 Olsson, U. 224
 O'Neill, L. H. 116, 117
 Opler, A. 181, 230
 Oppenheim, U. 234
 Orchard-Hays, W. 67, 143
 Orden, A. 65, 67
 Orgel, L. E. 210
 Orloff, D. 206, 207
 Orloff, H. 206, 207
 Osborne, E. E. 110
 Ostrowski, A. M. 75

- Paige, L. J. 109
 Papias, W. T. 114
 Parr, R. G. 206, 207
 Paschkis, V. 43
 Patnaik, P. B. 160
 Patton, N. A. 42
 Paulsen, M. 96, 98
 Peaceman, D. W. 45
 Pearcey, T. 106, 232, 245
 Pearson, E. S. 84
 Pearson, K. 154
 Pepinsky, R. 39
 Pereira-Gomes, A. 162
 Perley, R. 41
 Perlis, A. J. 40, 43
 Perry, C. L. 107
 Perry, K. E. 235
 Petrie, G. 115
 Philbrick, G. A. 43
 Pickens, D. H. 45
 Pike, E. W. 30
 Pitiscus, B. 182
 Plunkett, R. 131
 Poletti, L. 48, 49
 Porter, R. J. 96, 97
 Postley, J. A. 40
 Prandtl, L. 161
 Preuss, H. 211
 Prinz, D. G. 110
 Proschan, F. 85
 Prusch, S. B. 96, 232

 Rabinowitz, P. 97, 110, 203, 224
 Ragazzini, J. R. 118, 237
 Ramanujan, S. 49, 51
 Ramshaw, W. 42
 Rand Corp. 220
 Randall, R. H. 118
 Rapp, P. 47
 Rea, J. C. 40
 Rees, M. 114
 Reiter, S. 67
 Reitwiesner, G. W. 51
 Reynolds, G. E. 148
 Reynolds, G. 237
 Rhodes, I. 38, 172
 Rice, R. Jr. 40
 Richardson, A. R. 216
 Richardson, L. F. 125-127, 130, 242-245
 Ridgway, R. K. 110
 Rieberman, L. 116
 Rieke, C. A. 206-207
 Riley, J. D. 131
 Robb, J. C. 181
 Roberts, A. E. 40

 Robin, L. 162
 Robinson, G. 15, 16
 Robinson, M. 42
 Rock, S. M. 41
 Roothaan, C. C. J. 206, 207, 212
 Rosen, H. H. 43
 Rosen, N. 204, 206, 211
 Rosenbaum, S. 220
 Rosenbloom, P. 57
 Rosenhead, L. 211
 Ross, C. 171
 Ross, I. G. 209
 Rosser, J. B. 24
 Rothman, M. 162
 Rubinoff, M. 123
 Rüdénberg, K. 203, 206, 207, 210-212
 Rudnick, P. 235
 Runyon, J. H. 41
 Rushton, S. 86
 Russell, F. A. 118
 Rutishauser, H. 107

 Sage, B. H. 118
 Salvadori, M. G. 161
 Salvetti, O. 209, 211
 Salzer, H. E. 17, 78, 90, 98, 121, 149, 158
 Salzer, J. M. 176, 177
 Sampford, M. R. 21
 Sasaki, T. 25
 Saunders, R. M. 232
 Savage, I. R. 155, 221
 Schneider, P. J. 235
 Schroter, K. 57
 Schwartz, L. 228
 Schwetman, H. D. 235
 Scrocco, E. 209, 211
 Seelbinder, B. M. 83, 159
 Seifert, W. W. 43
 Sekera, Z. 25
 Selfridge, J. 242
 Sexton, C. R. 49
 Shaffer, S. J. 177
 Shanks, D. 64
 Sharp, D. W. 115
 Shaw, J. C. 40
 Sheldon, J. 125, 131
 Shepard, D. H. 41
 Sheppard, P. A. 242
 Sheppard, W. F. 243
 Shockency, W. S. 177
 Shortley, G. 127, 131
 Shoup, A. 115
 Shupe, P. D. Jr. 115
 Siegel, K. M. 90
 Simon, L. E. 219

- Simose, T. 206
 Sisson, R. 177
 Sklar, A. L. 211
 Slater, J. 203, 211
 Slater, L. J. 25, 225
 Slater, N. B. 91
 Slutz, R. J. 115
 Smagorinsky, J. 114
 Smith, A. E. 178
 Smith, C. V. L. 43, 114, 178
 Smith, E. S. 86
 Smith, L. B. 49, 51
 Smith, O. J. M. 181
 Smith, R. C. T. 91
 Sobel, M. 81
 Soden, W. 40, 95
 Soderquist, W. R. 98
 Sokolowsky, D. 67
 Solomon, H. 220
 Soroka, W. W. 45
 Southwell, R. V. 12, 13, 131
 Spence, R. D. 223
 Sprinkle, L. W. 41
 Stegun, I. A. 89, 225
 Stein, C. 160
 Stein, P. R. 215, 229
 Steinhilber, H. 160
 Sternberg, R. L. 225, 226
 Stevens, W. L. 20, 21
 Stewart, A. L. 222
 Stiefel, E. 189, 191, 193
 Strachey, C. 35
 Strachey, C. S. 110
 Stratton, J. A. 223
 Straus, E. G. 58, 60
 Stringer, J. G. 110
 Sugiura, Y. 204, 211
 Susskind, A. K. 177
 Sutton, L. E. 210
 Sweeney, D. W. 139
 Swenson, G. W. 181
 Swift, C. J. 39
 Swingle, D. M. 119
 Swinnerton-Dyer, H. P. F. 76
 Sylvester, J. J. 123

 Tadayon, J. 237
 Taguti, G. 221
 Tang, P. C. 85
 Tao, D. C. 45
 Taussky, O. 127, 131, 188, 231
 Taylor 174
 Taylor, R. 210
 Teichroew, D. 64, 95, 110, 139

 Terry, M. E. 17, 21
 Theil, H. 87
 Thomas, L. H. 125, 131
 Thomas, W. E. 161
 Thompson, G. M. 160
 Thompson, T. R. 175
 Thorne, C. J. 27, 210, 211
 Tikson, M. 91
 Timoshenko, S. 161
 Tippet, L. H. C. 228
 Todd, J. 96, 97, 111, 170, 176, 179, 193, 226, 244
 Tompkins, C. B. 109, 178, 245
 Toney, H. S. 171
 Touchard, J. 16
 Tricomi, F. G. 162
 Truesdell, C. 92
 Tsien, H. S. 92
 Tsingou, S. 90
 Tweedie, M. C. K. 16

 Uhler, H. S. 51, 75
 Unger, H. 226
 Uranisi, H. 87
 Urban, B. 90
 Utman, R. E. 44

 van Buskirk, M. 115
 van der Held, E. F. M. 163
 van der Poel, W. L. 170
 van der Pol, B. 78
 van Wijngaarden, A. 68, 75, 77
 Vance, P. R. 119
 Vandiver, H. S. 150
 Varnum, E. C. 45
 Veinott, C. G. 233
 Verzuh, F. M. 40, 43
 Vineyard, G. H. 182
 Vinogradov, I. M. 188
 Vivian, J. E. 45
 Voss, H. M. 92

 Wagner, H. M. 143
 Waite, J. 178
 Waite, J. H. 41
 Wald, A. 159
 Walker, G. B. 119
 Walker, R. J. 24
 Wallis, W. A. 81, 85
 Walsh, J. B. 180
 Walsh, J. E. 22, 82, 157, 220
 Walther, A. 226
 Wang, A. 38
 Warlick, C. H. 245
 Warren, D. W. 57

- Wasel, A. D. 42
Wasow, W. 245
Watanabe, N. 82
Watari, W. 206, 208
Watson, G. N. 211
Wegstein, J. H. 105, 106, 170, 172
Weihe, V. I. 114
Weiner, J. H. 180
Weinstock, R. 13
Welchman, W. G. 41
Weller, R. 131
Wells, M. B. 215, 229
Welti, G. R. 43
Westenberg, J. 87
Wetzel, W. W. 115
Weyl, F. J. 112, 113
Wheatley, P. J. 207
Wheeler, D. J. 36, 42, 110, 170
Whitby, O. 177
Whitelock, L. D. 114
Whitfield, J. W. 88
Whitney, D. R. 22
Whittaker, E. T. 15, 16
Wiegmann, N. 67
Wier, J. M. 115
Wilkes, M. V. 36, 41, 110, 226
Wilks, S. S. 220
Williams, C. R. 115
Williams, F. C. 111
Williams, K. P. 122
Williams, S. B. 115, 178
Wiseman, R. T. 44
Wolf, F. 131
Wolfe, P. 65, 67
Womersley, J. R. 14, 16
Wong, J. P. Jr. 47
Wood, H. 93
Woodall, H. J. 188
Woods, M. L. 110
Wrench, J. W. Jr. 29, 50, 51
Wright, J. B. 57
Wright, W. B. 175

Yamanouchi, T. 17
Young, D. 128, 129, 131
Young, D. M. 245
Young, M. E. 216

Zartarian, G. 92
Zener, C. 204, 211
Zia-ud-din, M. 216
Zucker, R. 90
Zuckerman, H. S. 77, 78
Zuse, K. 107, 112, 113
Zweiling, K. 27

